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Job No.: CTCE/BBMP/NC/W.No.07/CSR-976b/CEMENT/2019-20 Date: 06.06.2019

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. Nischal Constructions (Sri. N.Naveen),** No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
*** Name of Work**	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
*** Sample ID**	:	Cement
Sample Received on	:	04.06.2019
Period of Testing	:	04.06.2019 to 06.06.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	375 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

****

Asst.Exe.Engr. Kodigehalli Sub Division, BBMP, Bangalore

Pooja K.L.

M/s. Civil-Tech Consultants & Engineers

23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

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Job No.: CTCE/BBMP/NC/W.No.07/CSR-976b/SAND-Gradation/2019-20 06.06.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
*** Name of Work**	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
*** Sample ID**	:	Fine Aggregates (Manufactured Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	04.06.2019
Date of Testing	:	06.06.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.00	90-100	90-100	90-100	95-100
2.36	81.20	60-95	75-100	85-100	95-100
1.18	59.90	30-70	55-90	75-100	90-100
600 Micron	41.90	15-34	35-59	60-79	80-100
300 Micron	27.10	5-20	8-30	12-40	15-50
150 Micron	8.60	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers

23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

Assistant Executive Engineer
Kodigehalli Sub Division

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Job No.: CTCE/BBMP/NC/W.No.07/CSR-976b/AGG/GR/2019-20 06.06.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
*** Name of Work**	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
*** Sample ID**	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	04.06.2019
Date of Testing	:	06.06.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.30	95-100	85-100
20	39.18	30-70	0-20
10	14.92	10-35	0-5
4.75	2.92	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Civil-Tech Consultants & Engineers Bangalore

Pooja K.L.

M/s. Civil-Tech Consultants & Engineers

23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

Nischal. N.D
AE(Agt)

****

Assistant Executive Engineer
Kodigehalli Sub Division

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TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
*** Name of Work**	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
*** Sample ID**	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	04.06.2019
Date of Testing	:	06.06.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	97.24	95-100	85-100
10	36.84	25-55	0-20
4.75	6.32	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

****

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore

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Job No.: CTCE/BBMP/NC/W.No.07/Steel/2019-20 10.06.2019

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
*** Name of work**	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
*** Samples ID**	:	8mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	10.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	510	551	13.1	O.K	O.K

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****

Asst. E.E
AE(NS4)

Puja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Job No.: CTCE/BBMP/NC/W.No.07/Steel/2019-20 10.06.2019

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
*** Name of work**	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
*** Samples ID**	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	10.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	514	555	13.2	O.K	O.K

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Job No.: CTCE/BBMP/NC/W.No.07/Steel/2019-20 10.06.2019

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
*** Name of work**	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
*** Samples ID**	:	12 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	10.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	519	561	13.35	O.K	O.K

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

Ashwin. N.D
AE(NL)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Job No.: CTCE/BBMP/NC/W.No.07/CSR-976b/Cube/2019-20 10.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
*** Name of the work**	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
*** Sample ID**	:	RCC Drain Bed slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	10.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2019	10.07.2019	8.328	489.3	21.75
2	12.06.2019	10.07.2019	8.463	493.2	21.92
3	12.06.2019	10.07.2019	8.289	513.8	22.84

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

Ashok.N.D
AE(W-7)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Job No.: CTCE/BBMP/NC/W.No.07/CSR-976b/Cube/2019-20 10.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
*** Name of the work**	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
*** Sample ID**	:	RCC Drain Bed slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	10.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2019	10.07.2019	8.206	493.2	21.92
2	12.06.2019	10.07.2019	8.396	515.6	22.92
3	12.06.2019	10.07.2019	8.224	502.4	22.33

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

Ashok.N.D
AE(NSR)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/NC/W.No.07/CSR-976b/Cube/2019-20 12.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
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*** Reference**	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
*** Sample ID**	:	RCC Drain Bed slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	12.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2019	12.07.2019	8.115	485.6	21.58
2	14.06.2019	12.07.2019	8.206	510.3	22.68
3	14.06.2019	12.07.2019	8.332	513.6	22.83

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

AE(W7)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore

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Job No.: CTCE/BBMP/NC/W.No.07/CSR-976b/Cube/2019-20 12.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
*** Name of the work**	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
*** Sample ID**	:	RCC Drain Bed slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	12.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2019	12.07.2019	8.352	495.6	22.03
2	14.06.2019	12.07.2019	8.409	513.6	22.83
3	14.06.2019	12.07.2019	8.228	524.6	23.32

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

Ashwath N.D
AE(W)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/NC/W.No.07/CSR-976b/Cube/2019-20 15.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
* Name of the work	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.06.2019	15.07.2019	8.378	480.5	21.36
2	17.06.2019	15.07.2019	8.459	513.2	22.81
3	17.06.2019	15.07.2019	8.218	508.9	22.62

*Information is furnished by the Customer/Representative.

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

Nischal.N.D
AE(Ret)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/NC/W.No.07/CSR-976b/Cube/2019-20 15.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
*** Name of the work**	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
*** Sample ID**	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.06.2019	15.07.2019	8.119	499.6	22.20
2	17.06.2019	15.07.2019	8.296	519.3	23.08
3	17.06.2019	15.07.2019	8.335	526.7	23.41

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Pooja K. L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

AE (Civil)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/NC/W.No.07/CSR-976b/Cube/2019-20 17.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
* Name of the work	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.06.2019	17.07.2019	8.117	493.3	21.92
2	19.06.2019	17.07.2019	8.229	511.6	22.74
3	19.06.2019	17.07.2019	8.350	504.5	22.42

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

AE(W7)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore-560 092

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Job No.: CTCE/BBMP/NC/W.No.07/CSR-976b/Cube/2019-20 17.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
*** Name of the work**	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
*** Sample ID**	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	17.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.06.2019	17.07.2019	8.118	475.5	21.13
2	19.06.2019	17.07.2019	8.203	485.2	21.56
3	19.06.2019	17.07.2019	8.392	504.5	22.42

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

AE(W2)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Job No.: CTCE/BBMP/NC/W.No.07/CSR-976b/Cube/2019-20 19.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
* Name of the work	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.06.2019	19.07.2019	8.102	512.3	22.77
2	21.06.2019	19.07.2019	8.208	523.8	23.28
3	21.06.2019	19.07.2019	8.309	534.6	23.76

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers

23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

AE(W)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bengalore Mahanagara Palike
Bangalore - 560 092

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* Name of the work	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.06.2019	19.07.2019	8.180	499.5	22.20
2	21.06.2019	19.07.2019	8.349	512.6	22.78
3	21.06.2019	19.07.2019	8.229	523.8	23.28

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

Assistant Executive Engineer
Kodigehalli Sub-Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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Job No.: CTCE/BBMP/NC/W.No.07/CSR-976b/Cube/2019-20 22.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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*** Agency**	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
*** Name of the work**	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
*** Sample ID**	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	22.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.06.2019	22.07.2019	8.298	493.5	21.93
2	24.06.2019	22.07.2019	8.309	515.8	22.92
3	24.06.2019	22.07.2019	8.415	532.4	23.66

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers

23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

Ashwini N.D
AE(Civil)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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* Reference	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	22.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.06.2019	22.07.2019	8.198	493.2	21.92
2	24.06.2019	22.07.2019	8.202	511.4	22.73
3	24.06.2019	22.07.2019	8.305	537.9	23.91

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

AE(W)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore

CIVIL-TECH CONSULTANTS AND ENGINEERS

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Job No.: CTCE/BBMP/NC/W.No.07/CSR-976b/Cube/2019-20 25.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
* Name of the work	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.06.2019	25.07.2019	8.135	499.5	22.20
2	27.06.2019	25.07.2019	8.283	512.2	22.76
3	27.06.2019	25.07.2019	8.320	528.7	23.50

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL-TECH CONSULTANTS AND ENGINEERS

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* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
* Name of the work	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.06.2019	25.07.2019	8.113	474.5	21.09
2	27.06.2019	25.07.2019	8.203	485.6	21.58
3	27.06.2019	25.07.2019	8.320	513.6	22.83

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

AE(W7)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara
Bangalore - 560 092

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/NC/W.No.07/CSR-976b/Precast Slab/2019-20 10.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
*** Name of work**	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
*** Sample ID**	:	Precast Slab (100mm thick)
*** Grade of Concrete**	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	08.07.2019
Date of Testing	:	10.07.2019

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.416	2583.74	1.64	0.961	30.50	15.53	16.78	17.45	21.82
2	50.00	84.00	0.420	2546.48	1.68	0.965	32.85	16.73	18.07	17.44	21.81
3	50.00	85.00	0.419	2510.53	1.70	0.968	33.75	17.19	18.56	17.96	22.45

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

Kodigehalli Sub Division

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/NC/W.No.07/CSR-976b/Precast Slab/2019-20 10.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer**, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**M/s. Nischal Constructions** (Sri.N.Naveen), No.363, 10th Main, 1st Cross, Sampige Layout, Vijayanagara, Bangalore – 560079.
* Name of work	:	Improvements to roads and drains in Padma tent area in Ward No.07, Byatarayanapura, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/56/2017-18 Dated: 06.05.2017
* Sample ID	:	Precast Slab (200mm thick)
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	08.07.2019
Date of Testing	:	10.07.2019

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	77.00	0.382	2526.64	1.54	0.950	30.60	15.58	16.83	17.71	22.14
2	50.00	79.00	0.392	2527.14	1.58	0.955	32.85	16.73	18.07	17.25	21.56
3	50.00	80.00	0.396	2521.01	1.60	0.957	33.95	17.29	18.67	17.87	22.33

* Information is furnished by the Customer/Representative

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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Pooja K.L.

M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079

Asst. E.E

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com